

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP02/12304

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C07D323/00//A61K31/357, A61P35/00, 43/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C07D323/00, A61P35/00, 43/00, A61K31/357

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1992-1996 Jitsuyo Shinan Toroku Koho 1996-2002

Kokai Jitsuyo Shinan Koho 1971-2002 Toroku Jitsuyo Shinan Koho 1994-2002

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

REGISTRY (STN), CASREACT (STN), CAPLUS (STN)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	NAKAMURA, H. et al., Determination of the Absolute Stereostructure of seco-Macrosphelide E Produced by a Fungal Strain from a Sea Hare, Chem. Pharm. Bull., 2002, Vol.50, No.2, pages 303 to 306	1-3
A	ONO, M. et al., Total syntheses of macrosphelides (+)-A, (-)-A and (+)-E, Tetrahedron: Asymmetry, 2000, Vol.11, pages 2753 to 2764	1-3
A	NAKAMURA, H. et al., Formal Total Synthesis of Macrosphelide (+)-A, Effect on Macrolactonization Depended Upon The Lactone Formation Position, Heterocycles, 2002, Vol.57, No.2, pages 327 to 336	1-3

☒ Further documents are listed in the continuation of Box C.
 ☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;"

document member of the same patent family

Date of the actual completion of the international search  
04 February, 2003 (04.02.03)Date of mailing of the international search report  
18 February, 2003 (18.02.03)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Hiroshi NAKAMURA et al., "Macrosphelide(+)-A, (-)-A, (+)-E no Zengosei", Dai 42 Kai Symposium on the Chemistry of Natural Products, Symposium Papers, 01 October, 2000 (01.10.00), pages 637 to 642	1-3
A	COX, C.M. et al., Synthetic Studies on Electron Transport Inhibitors. Part 1. Chiral Synthesis of a Synthon for Myxalamide D. Piericidin A. and the Actinopyrones, J.Chem.Soc. Parkin Trans.1, 1991, Vol.8, pages 1901 to 1905	1
A	TROST, B.M. et al., A Synthetic Approach to Polyene Macrolides: Synthesis of the Building Blocks, Tetrahedron Letters, 1986, Vol.27, No.47, pages 5691 to 5694	1